“America’s Most Deployed Weapon System”

PM Individual Weapons Briefing

Arming the Current and Future Soldiers

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“OUR ARMY AT WAR - RELEVANT AND READY”

Program Executive Office Soldier

PEO Soldier SGM

Program Executive Officer Soldier

Deputy PEO

Congressional Affairs

Operations & Plans

Business Management

RFI OPS

Objective Force Warrior Technology Program Manager*

USMC LNO

Public Affairs

Personnel

Systems Integration

Project Manager Soldier Warrior

DPM Soldier Warrior

Business Mgt Directorate

Technical Mgt Directorate

Logistics & Test

Operations and Plans

PM Air Warrior

PM Land Warrior

PM Future Warrior (planned)

Project Manager Soldier Weapons

DPM Soldier Weapons

Business Mgt Directorate

Logistics & Test

Program Management

PM Individual Weapons

PM Crew Served Weapons

Project Manager Soldier Equipment

DPM Equipment

Business Mgt Directorate

Technical Mgt Directorate

Logistics & Test

Operations and Plans

PM Clothing and Ind Equip

PM Sensors and Lasers

* Dual Reporting NSC/PEO

As of: 02 March 04

Soldier Weapons Today and Tomorrow

TEAM SOLDIER

PROJECT MANAGER SOLDIER WEAPONS

Individual
Circa (1963)

M16A4 Rifle

M16/M203

M4 Carbine

Crew Served

MK19 Grenade Machine Gun

M2 .50 CAL Machine Gun

M249 Squad Automatic Weapon *(SAW)*

Individual Weapons

25mm Ammo
High and Low Velocity

- Airburst
- Thermobaric
- Armor piercing

40mm Ammo
Thermobaric

Crew Served Weapons

XM307/XM312 Advanced Crew Served Weapon

Common Remotely Operated Weapon Station *(CROWS)*

XM8 Carbine

XM320 40mm Grenade Launcher

XM29 Integrated Airburst Weapon System

XM25 Air Burst Weapon

M107 Long Range Sniper Rifle

Lethality Leap Ahead Achievable in 12/24 Months

PM Soldier Weapons Programs List

DEVELOPMENT

ACAT II WEAPONS

1. XM29 Integrated Air Burst Weapon
   - XM25 Air Burst Weapon
   - XM8 Modular Assault Weapon System
2. XM307, (25mm) Advanced Crew Served Weapon
   - XM312 .50 Cal Machine Gun Variant

SOLDIER ENHANCEMENT PROGRAMS

3. XM26 12 Gauge Modular Accessory Shotgun System (MASS)
4. XM110 7.62 Semi-Automatic Sniper System (SASS)
5. Close Quarters Battle Kit
6. XM1041/XM1042, Close Combat Mission Capability Kit
7. XM102, Reloadable Stun Grenade

BLOCK MOD PROGRAMS

8. CROWS, Remote Mount
9. Medium Machine Gun Weight Reduction Program
10. M240E5, 7.62mm MG (Aviation Version)
11. M249 SAW 200 Round Soft Pack
12. XM116 Sight Computerized Small Arm Fire Control

AMMO BLOCK MOD PROGRAMS

13. XM1037, Short Range Training Round for M249
14. XM1060 40mm Multipurpose Cartridge
15. XM430A1E1 DUD Reducing 40MM (FCT)

*AMMO PRODUCTION PROGRAMS**

- M995, 5.56mm Armor Piercing
- M993, 7.62mm Armor Piercing
- M903/M962 Cal .50 SLAP/SLAPT
- M1012/M1013, 12 Gauge Non Lethal Point and Crowd Control
- M1006, Non Lethal 40mm Round
- M1001, 40mm Canister Round
- M1029, 40mm Crowd Dispersal Cartridge
- M67 Frag Hand Grenade PIP for EM Fuze
- Enhanced Pyro (EP) Fuze for M67 Hand Grenade
- M100, Grenade Rifle Entry Munition (GREM)
- MK243 MOD 0 9MM Jacketed Hollow-Point
- M862 5.56mm Short Range Training Ammo
- M1030 12 Gauge Breaching Round
- MK281 Target Practice Cartridge

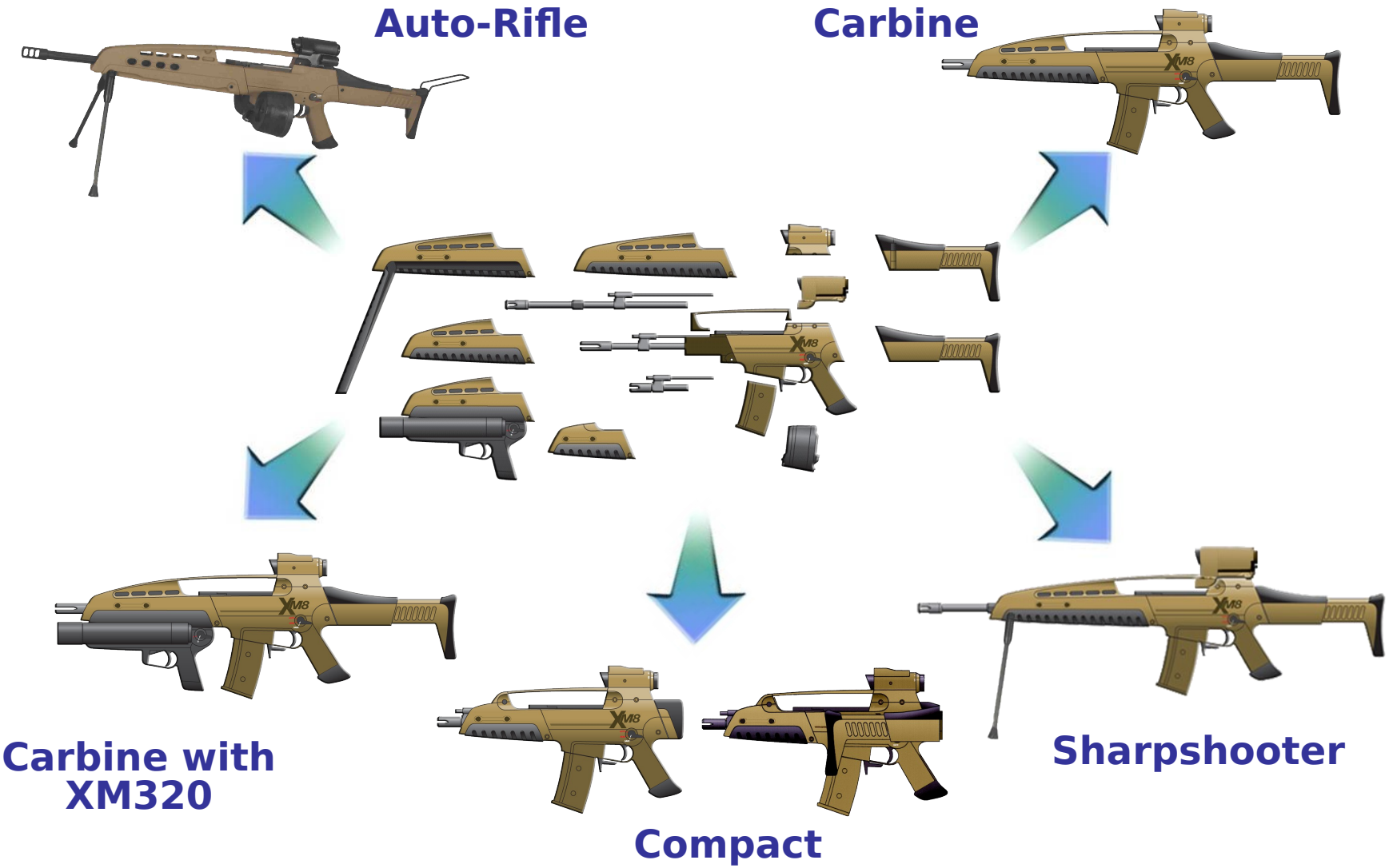
PROCUREMENT

16. M240B, 7.62mm Medium Machine Gun
17. M240 Mod Line
    - M192, Light Weight Ground Mount for MG
    - Improved Bipod
    - Improved Flash Suppressor
    - Combat Ammunition Pack
18. M249, 5.56mm Squad Automatic Weapon
19. M249 Mod Line
    - M249 Short Barrels
    - MG Front Rails
    - Improved Bipod
    - Collapsible Buttstock
    - M192, Light Weight Ground Mount for MG
20. M16A4 5.56mm Rifle
21. M16 Rifle Mod Line
    - M5 Adapter Rail
22. M4, 5.56mm Carbine
23. M4 Carbine Mod Line
    - M4 Adapter Rails
    - Back Up Iron Sight
    - M68 Close Combat Optic
    - M203A1 MWO Kit
    - M203 Rail System
24. MK19
25. MK19 Mod Line
    - Mod Kit
    - Lightweight Adjustable Sight Bracket
    - Tactical Engagement Simulator (TES)
26. M107 Semi Automatic Long Range Sniper Rifle
27. Sniper Accessory Kit
28. M145 Machine Gun Optics
29. M25 Stabilized Binoculars

- Programs Managed by PM Soldier Weapons for PEO Ammunition in accordance with MOA

XM8
Modular Assault Weapon System

XM8 Modular *FAMILY*



XM8 Capabilities/Benefits

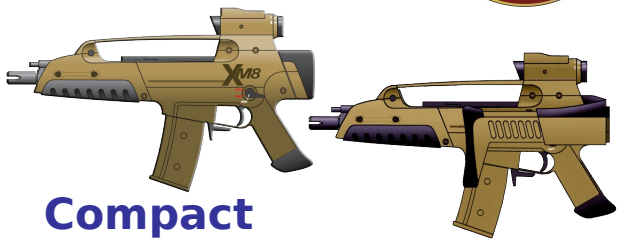
Baseline Assault Rifle

- Characteristics:
  - Collapsible Buttstock
  - 12.5” Barrel
  - Integrated Baseline Si
  - Improved Magazines
  - Weight: 6.99 lbs w/opt

Sharpshooter/Auto-Rifle

- Characteristics:
  - Collapsible Buttstock
  - 20” Barrel
  - Integrated 4x Sight
  - Improved Magazines
  - Integrated Bipod
  - High Capacity Magazine for Auto-

- Integrated Sight/Lasers
- Ambidextrous Controls
- Reconfigurable at Unit
  - One Platform for All Variants
- Backup Mechanical Sight
- Greater Accuracy
  - ≤ 2° MOA
- Greater Reliability
  - 3X Increase
  - 20K Rds w/o Stoppage
- Longer Weapon Life
  - 2-3X Increase
  - ≥ 20K Rds
- Reduced Cleaning Time
  - 70% Reduction
- Reduced Training Time
  -



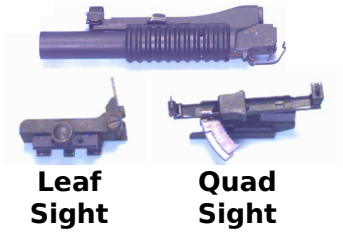
Compact

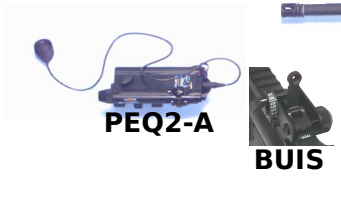
- Characteristics:
  - Fixed Buttpad or Folding or Telescoping Stock
  - 9.5” Barrel
  - Integrated Baseline Sight
  - Improved [illegible]gazines
  - [illegible]w/optic

XM320 Grenade Launcher

- Characteristics:
  - Attaches to XM8 w/o Tools
  - Pivoting Barrel Design Accepts All 40mm Rounds
  - Integrated Leaf or Digital Sight
  - Single Shot

XM8 *FAMILY* of Modular Weapons Can Replace…



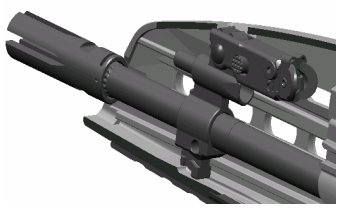


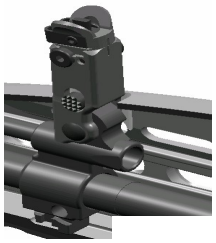
Multiple Eaches Replaced by Single Integrated *FAMILY*

XM8 Weapon Improvements (2nd Generation)

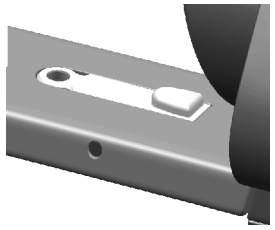
Folding Front Sight Post

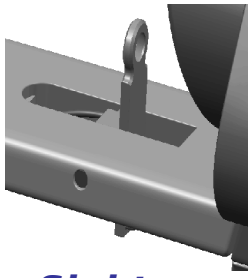
- Post and guards
- Elevation & windage
- Mounted on gas block





Wireless Remote for Lasers

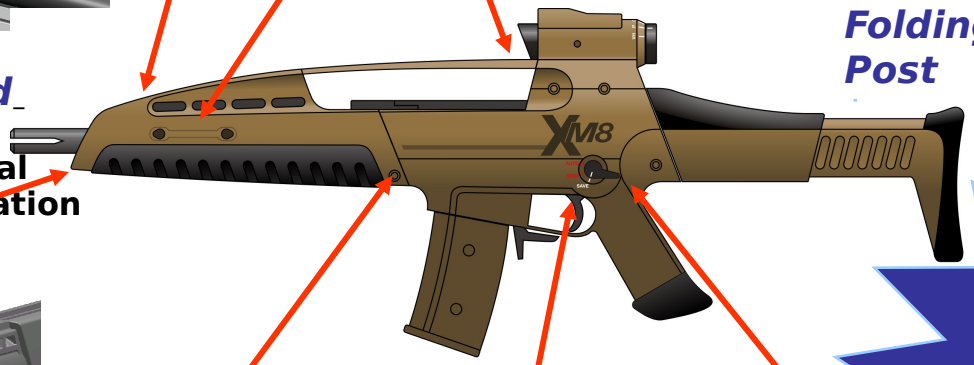


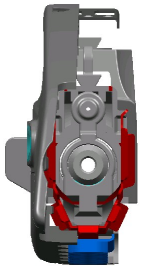


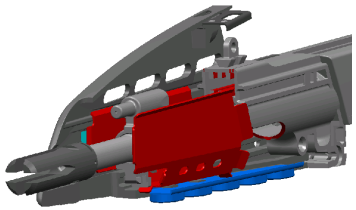
Folding Rear Sight Post

Improved Handguard

- Shape change
- Heat resistant material
- Improved heat dissipation







Captive Take Down Pins

Deliveries Begin May 04

Trigger Mechanism

- Improved bolt locking switch
- Improved Bolt Catch

Selector Switch

- Reduce profile
- Improved ergonomics

Improved Collapsible Buttstock for the Compact

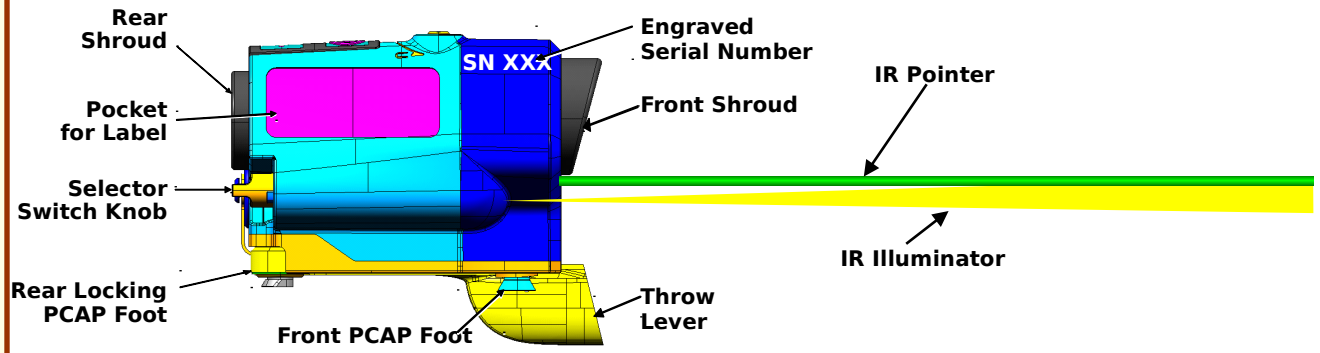
Auto-Rifle Improvements:

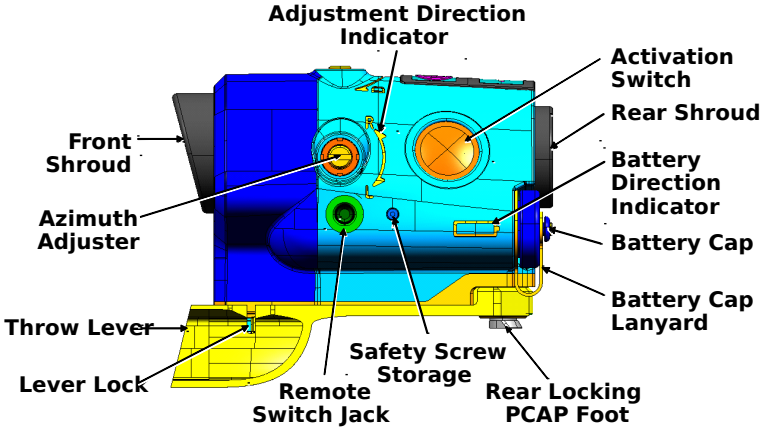
- Heavy Barrel for Auto-Rifle
- Removable vertical fore grip
- Bi-pod legs adjustable for length (also Sharpshooter)

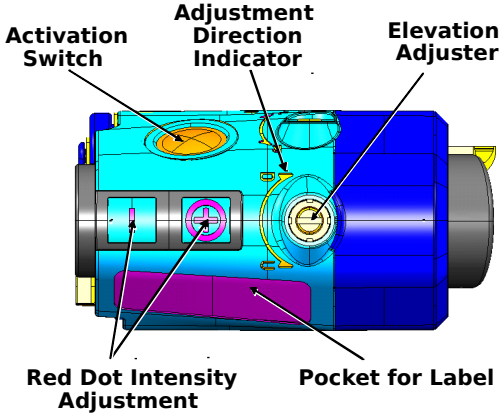
Integrated Red Dot & Lasers
(2nd Generation)

Technical Data

- Weight: 9.6 oz
- Optic
  - Unity Power
  - 1.5 MOA Red Dot
  - Min 8 deg FOV
  - Unlimited Intensity Range
- IR Pointer
  - Range: 800m
  - Low Power 700 microwatts peak
  - High Power 35 milliwatts
  - 0.25 mrad Beam Divergence
- IR Illuminator
  - Range: 600m
  - Fixed Focus – 65 mrad
  - Low Power 3.5 milliwatts
  - High Power 30 milliwatts
- One Optical Bench
- Battery Life (DL123)
  - Red Dot Only: 400 hrs
  - Dual Hig







Combines CCO and PEQ 2

4X Optic Integrated Red Dot & Lasers
(2nd Generation)

Technical Data

- Weight: 20 oz
- Optic
  - 4x magnification
  - 1.5 MOA Red Dot
  - Min 8 deg FOV
  - Unlimited Intensity Range
- IR Pointer
  - Range: 800m
  - Low Power 700 microwatts peak
  - High Power 35 milliwatts
  - 0.25 mrad Beam Divergence
- IR Illuminator
  - Range: 600m
  - Fixed Focus – 65 mrad
  - Low Power 3.5 milliwatts
  - High Power 30 milliwatts
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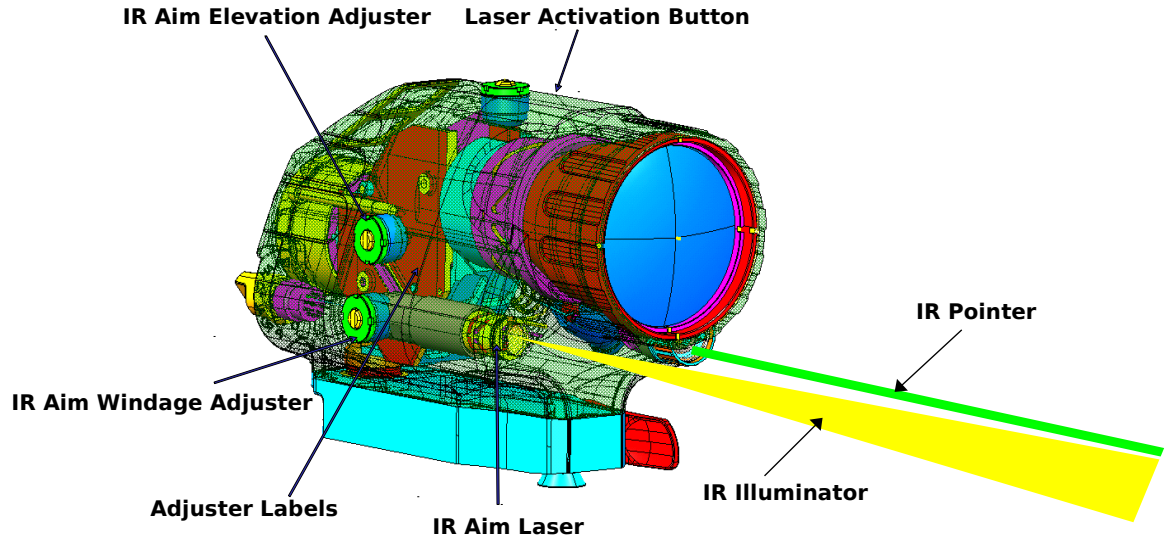
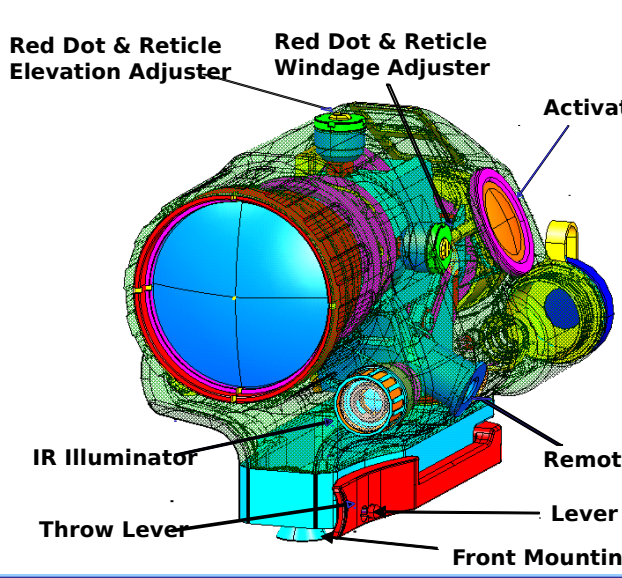
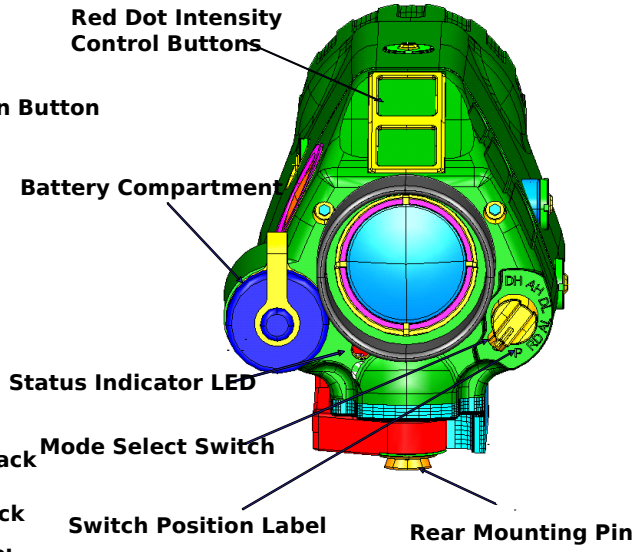


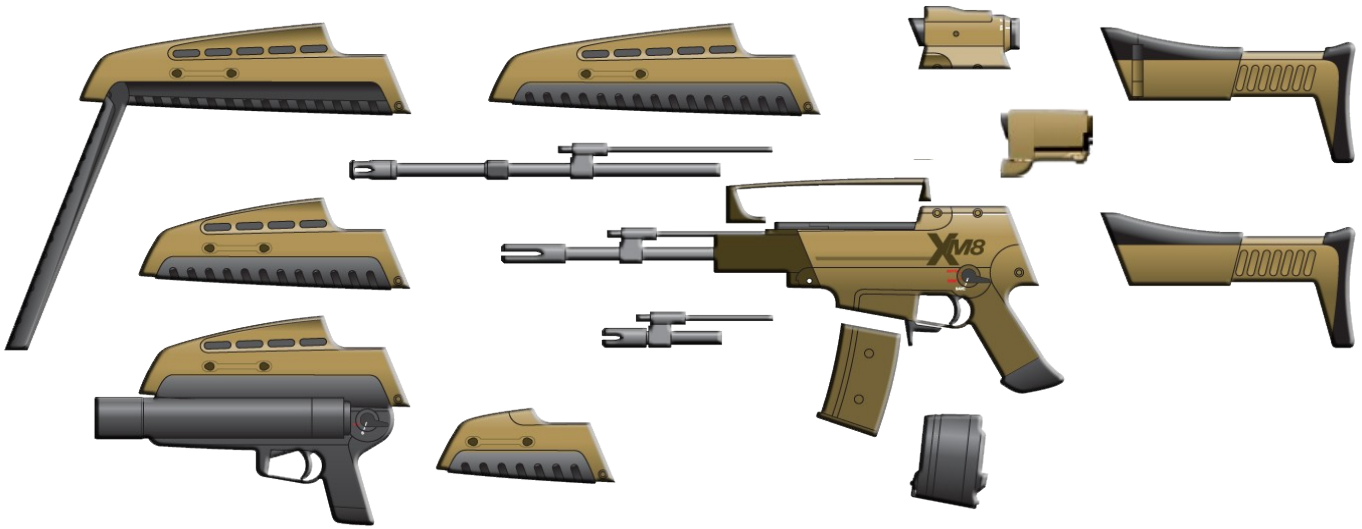




Combines ACOG and PEQ 2 Capabilities

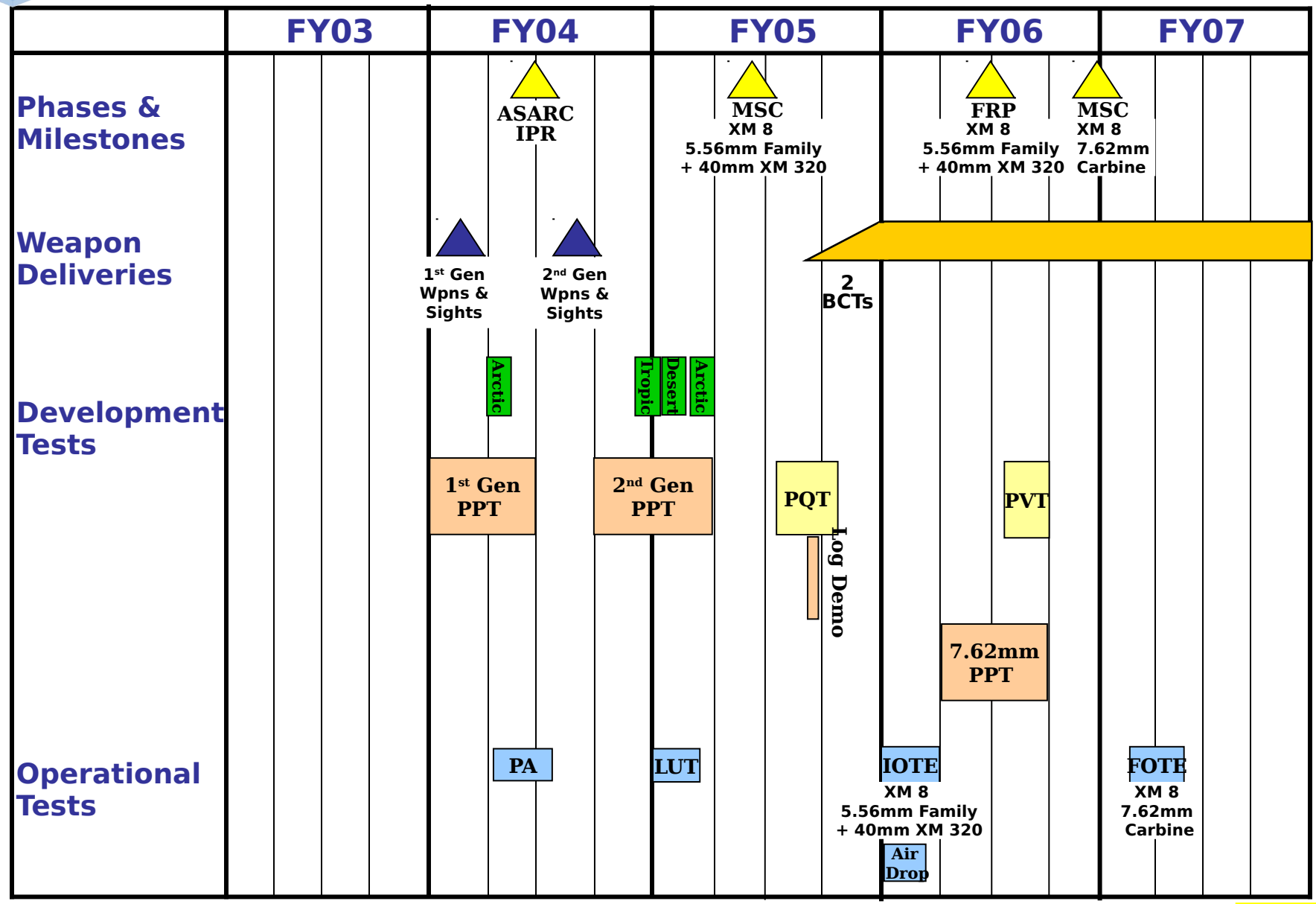
XM8 Maintenance Philosophy
(*FAMILY* of Modular Weapons)

- XM8 Maintenance Concept Supports All Tasks at Soldier/Unit Level Except De-mil and Accountability
- Simple Design Increases Reliability/ Maintainability
  - ***91*** Parts vs. ***521*** Parts (M4/M16/M9/M249/M203/PEQ2/M68/Rails/ACOG)



XM8 Firing

XM8 *FAMILY* Schedule



LEGEND: Development Test | Soldier Test

WORKING DRAFT

As of 15 Apr 04

XM320, 40mm Grenade Launcher Module (GLM)

Description:

- Interim Grenade Launcher (Mounts To M16/M4 Series Of Weapons And OICW Block I Carbine) To Overcome Capability Shortcomings Of Current M203 System While Awaiting The XM25 Airbursting Weapon System

Capability of Item:

- Improves Squad Level Indirect/Direct Grenade Launching Capability Out To 400 Meters.
- Greater Reliability And Safety Than M203
- Greater Target Acquisition And Accuracy (Day And Night)
- Capable Of Being Fired As A Stand-alone Weapon
- Able To Fire Wider Array Of Munitions

Objective: To Improve The Grenadier's Fires And Effectiveness

XM320 GLM-40mm Procurement Challenge

OICW Increment I Carbine

M16A4 Rifle

M16A2 Rifle

M4 Carbine

Challenge:_

Rapidly Produce A 40mm Grenade Launcher Capability That Will Meet The OICW Increment I Milestone C Schedule And Which Will Also Be Compatible With Current Rifle/Carbine Systems

XM320 Must Accommodate these Weapons

XM320 GLM Requirements

Requirements are from the Draft OICW Increment I Area Suppression Lethality Module (ASLM) CDD

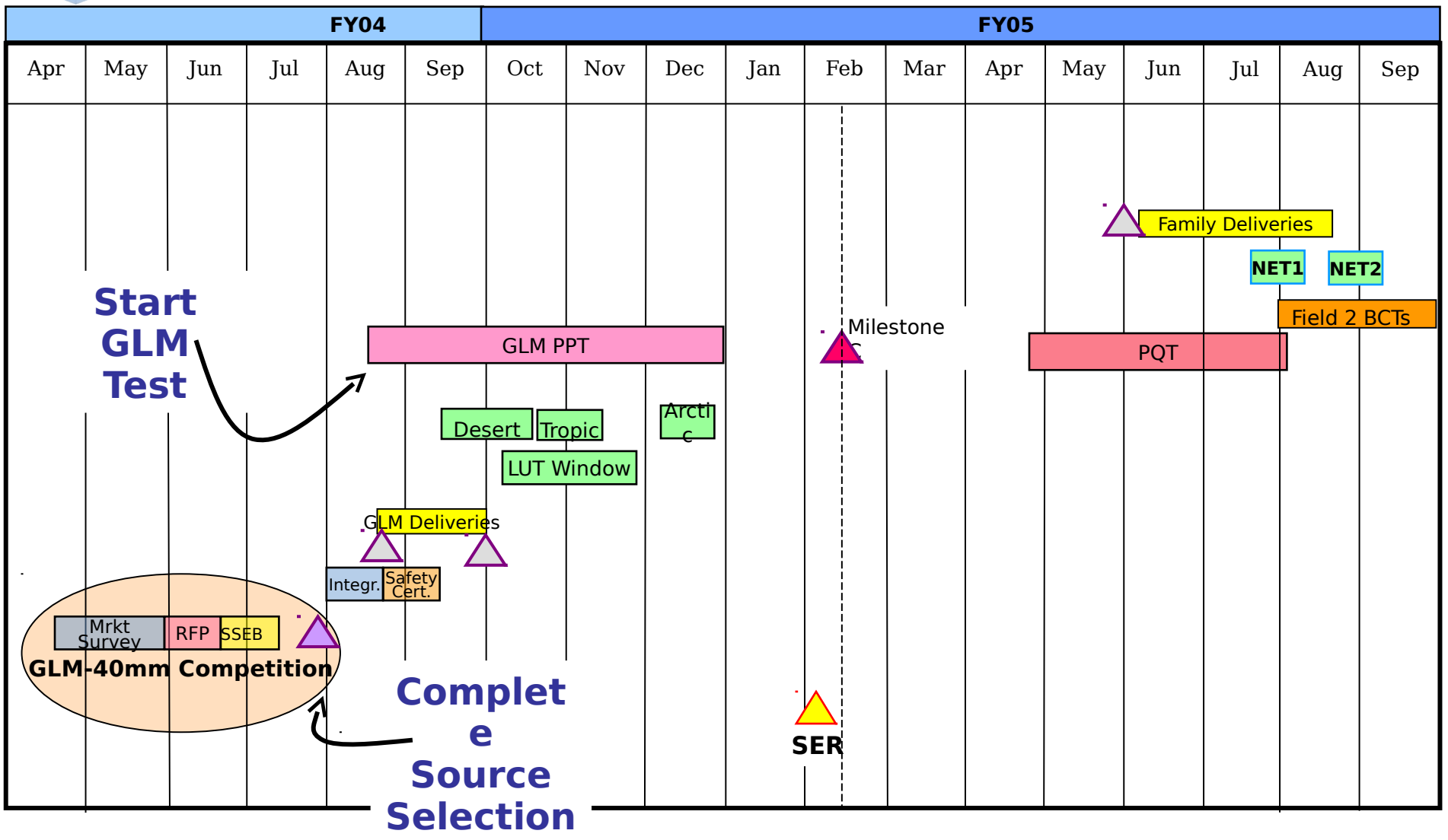
- OICW Host Platform
- Compatible With M4 MWS/M16A4 MWS/M16A2
- User Can Attach/Detach Without Special Tools
- Stand Alone Capable Without Special Tools
- Manually Operated Firing Mechanism
- Day And Night Sighting System/Fire Control
- Range Finding (Objective)
- Secondary Backup Sighting
- > M203 For Probability Of Hit, Accuracy, And Reduced Time
- To Engage Targets
- Compatible With Current Munitions
- System Safety > M203
- No Interference With Host Weapon And No Degradation Of Host
- Weapon Dispersion > .5 Mils @ 25m
- Retain Boresight For 100 Rounds

Initial Source Selection Guidance

- NDI/COTS Procurement Only!
- Ability to Meet OICW Increment I Schedule is Critical
- M4 Carbine MWS Will be Evaluation Weapon for SSEB. Two Bid Samples Required for SSEB Trials.
- Must See Evidence of Open Architecture/Modular Mounting System to Accommodate All Required Weapon Types
- Examine Using/Adapting the Existing AN/PQS-18A Day/Night Sight for GLM Sighting System (Not Presently a Stated Requirement)
- Materiel Developer Desires a GL System Breach Design That Does Not Restrict Ammunition Length to Enable Some Degree of Growth Within the System (Not Presently a Stated Requirement).

(Working Draft)

40mm GLM Schedule



Working Draft as of 8 May

(Working Draft)

Key Program Actions up to MS C

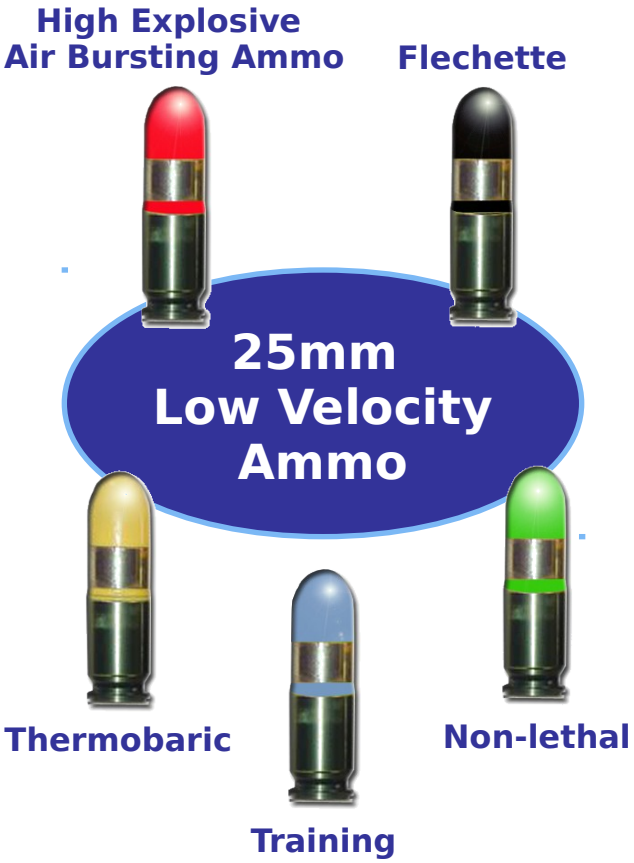
- Market Survey posted in FedBizOps on **26 April 04**
- Solicitation Number:W15QKN-04-X-0304
- Request For Proposal Expected to be Issued – **Last week of May 04**
- Contract Award for 35 XM320s **- Expected last week of July 04**
- First Delivery – **Expected end of August 04**
- Final Delivery - **Expected end of September 04**

XM25
Air Burst Weapon

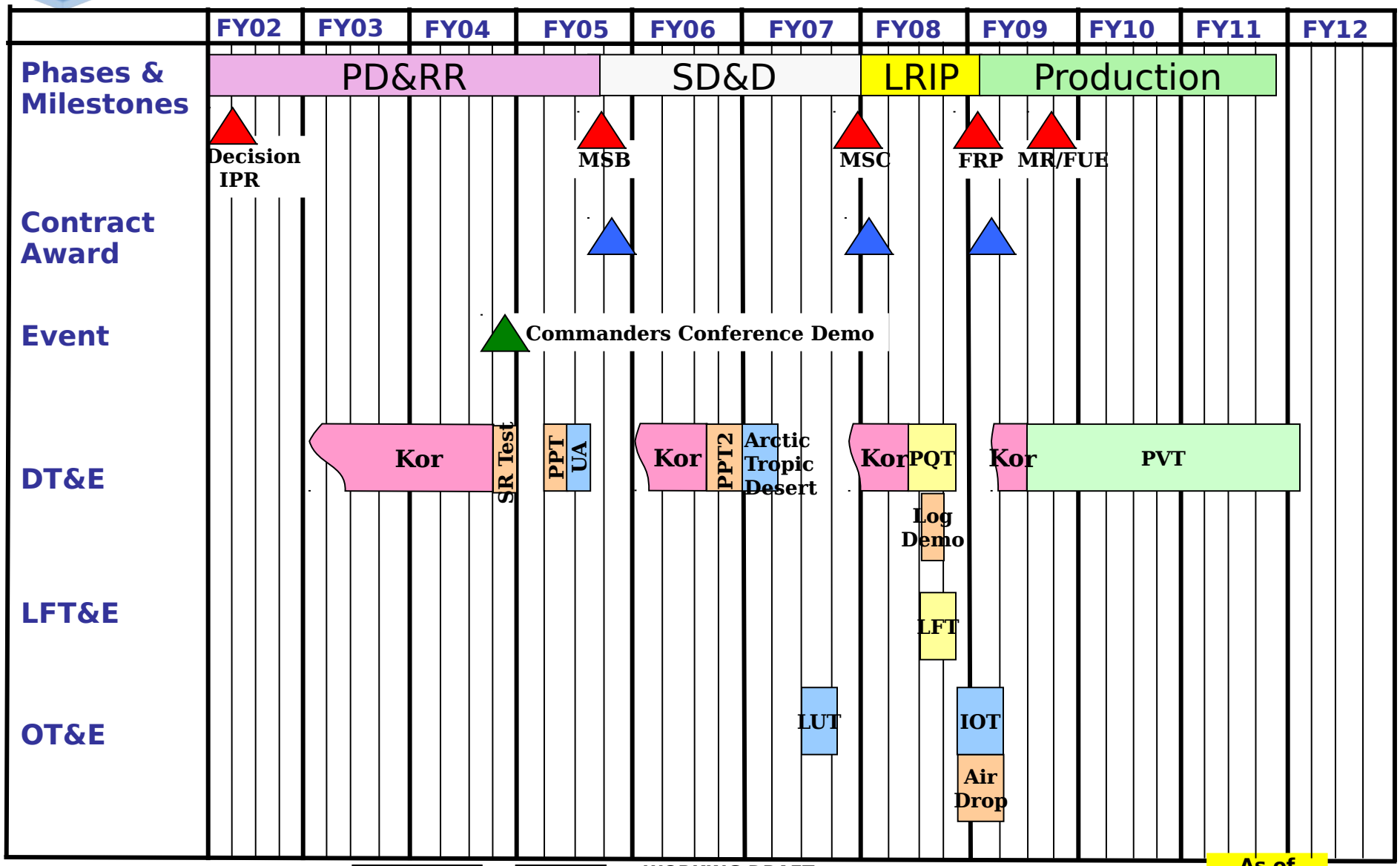
XM25 Air Burst Weapon System

Air Burst Capabilities

- **Defeats Defilade Targets**
- **Attacks Point Targets Out To 500m**
- **Attacks Area Targets Out To 700m**
- **Semi-automatic**
- **System Weight <12 Lbs (Xm25 Variant)**
  - **Weapon**
  - **Target Acquisition/Fire Control (TA/FC)**
  - **Power Supply**
  - **Magazine/Ammo**
  - **Sling**



XM25 Program Schedule

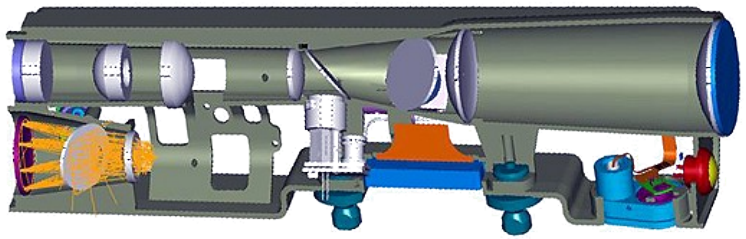


LEGEND: Contractor DT | Government DT | Soldier Test

WORKING DRAFT

As of 20 April 04

XM104
Target Acquisition/Fire Control



2.62 lbs

Function	Capabilities
Hybrid DVO (Direct view optics)	Provides 500m day recognition against personnel targets – with wide 15 degree FOC (2x)
Thermal	Provides 500m day/night against personnel targets – 12 degree Horizontal FOV with P(rec) 90%
Laser Rangefinder	Provides target range – High repetition rate (for assisted ranging) and high range accuracy out to 1000m
Display	Provides red symbology/reticle overlay on the DVO image and provides video display for the thermal image
Fuze Setter	Programs ammo for airburst (AB) with PD (Point Detonate) backup
CPU	Provides the “brains” for the fire control system: controls operation, reads all the sensors, calculates the ballistic solution, commands the display symbology, controls power management and LW interface, performs BIT, and etc.
Compass	Provides heading for Situational Awareness, also provides cant/tilt angles for inputs to the ballistic calculation
Land Warrior Interface	Capabilities to provide video and symbology to Land Warrior Helmet Mounted Display and two way data and control communications

XM26, 12 Gauge, Modular Accessory Shotgun System (MASS)

Description:
A Lightweight Shotgun System that Attaches to the M4 and M16 Modular Weapon System (MWS), XM8 Underneath the Barrel.

Capabilities:

- **Provides the Capability to Fire Lethal, Non-Lethal and Door Breach 12 Ga. Rounds.**
- **Shotgun Can be Zeroed to the Sighting System of the Host Weapon.**
- **Provides the Lethality Equivalent of a Standalone 12 Ga. Shotgun.**
- **Capable of Being Fired as a Standalone Weapon.**

Objective: **To provide Lethal, Non- Lethal, and Door Breaching Capability With a 12 Ga. Accessory Shotgun Attached to the Primary Weapon.**

Urgent Fielding to OEF

TEAM
SOLDIER
The Soldier
"America's Most Deployed Weapon System"
PROJECT MANAGER
SOLDIER WEAPONS
XM25
"EVERY SOLDIER IS A RIFLEMAN FIRST"
GEN SCHOOMAKER
WE CAN DELIVER